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basic imagery interpretation report

Soviet Mobile Missile Summary

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DEPLOYED STRATEGIC SSM FACILITIES
BE: Various
USSR

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RCA-01/0003/83
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List of Acronyms and Abbreviations

AAD	Azimuth Alignment Device
C3	Command, Control, and Communications
CAN/CAP	Canister/Capsule
Cplx	Complex
CP/Bnk Hd	Command Post/Bunker Hard
CSF	Complex Support Facilities
Div	Division
FTA	Field Training Area
GSA	General Support Area
GSE	Ground Support Equipment
HP/TD	Hard-Point/Tiedown
ICBM	Intercontinental Ballistic Missile
IRBM	Intermediate-Range Ballistic Missile
km	Kilometer(s)
LAD	Launch Assist Device
LRP	Launch Reference Position
LTS	Launch Test Site
MHF	Missile Handling Facility
MRACA	Missile Receiving and Checkout Area
MRB	Missile-Ready Building/Bunker
MRBM	Medium-Range Ballistic Missile
MSRD	Missile Support Rear Depot
MSTC	Missile/Space Test Center
MSV	Missile Support Van
MTC	Missile Test Center
nm	Nautical Mile(s)
NPHF	Nuclear Payload Handling Facility
NPIC	National Photographic Interpretation Center
NWHF	Nuclear Warhead Handling Facility
PBV	Postboost Vehicle
PGCS	Propulsion Guidance Control Section
PHF	Payload Handling Facility
POE	Piece(s) of Equipment
Rcvr	Receiver
Regt	Regimental
R&D	Research and Development
RIC	Receiving, Inspection, and Checkout
RIM	Receiving, Inspection, and Maintenance
RISA	Receiving/Inspection/Storage Area
RTP	Rail-to-Road Transfer Point
Rvt	Revetment
SBG	Single-Bay Garage
SMRA	Silo Materials Receiving Area
SRF	Strategic Rocket Forces
SSM	Surface-to-Surface Missile
TEL	Transporter-Erector-Launcher
TSA	Temporary Support Area
UHF/VHF	Ultra-High Frequency/Very High Frequency
Xmtr	Transmitter

This list in its entirety is classified SECRET

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SOVIET MOBILE MISSILE SUMMARY

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SUMMARY

1. This report updates information in NPIC report on SS-20 mobile IRBM bases in the USSR and includes a synopsis of significant mobile missile activity observed at two offensive missile test centers and several C3 facilities (Figure 1). Significant activity derived from is also included. (TSR)

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2. Significant activity/observations during the reporting period included the following:

   a. the first identification of SA-9 equipment at Drovyanaya Mobile IRBM Base 3;

   b. the observation of unidentified objects/vehicles at Drovyanaya Remote Site 1;

   c. the observation of activity at the NPHF at Drovyanaya SSM RTP;

   d. the observation of a newly identified mobile IRBM base and support complex at Barnaul;

   e. the observation of a newly identified mobile IRBM base and support complex at Kansk;

   f. the identification of TEL leveling jack imprints/clearings and SS-20 equipment/vehicles at Novosibirsk MOB IRBM Base 5;

   g. the observation of stationary SS-20 vehicle mockups at Yurya Mobile IRBM Base 2 and 3;

   h. the observation of SS-20 TEL leveling jack imprints/clearings at Yurya SSM Launch Position 6;

   i. the assessment of Kivertsy Mobile IRBM Base 2 as being operational;

   j. the external completion of Kivertsy NPHF;

   k. the observation of a newly identified RTP at Kivertsy;

   l. the observation of a NPHF under construction at Krolevets Mobile IRBM Base 1;

   m. the expansion of the RTP at Krolevets;

   n. the observation of TEL leveling jack imprints/clearings at Lebedin Mobile IRBM Base 1;

   o. the observation of a newly identified RTP at Slonim;

   p. the arrival of additional SBG components at Balta MSRD;

   q. the first identification of SS-20 field training activity at a previously abandoned LTS at Kapustin Yar;

   r. the dismantlement of a quonset-type garage at Plesetsk MOB 1 and MOB 2;

   s. the observation of pre- and postlaunch activity at Plesetsk LTS 23;

   t. the construction of a rail-served probable ICBM launch test facility at Plesetsk LTS 28;

   u. the continuation of the production of SBG components at Bryansk;

   v. the continuation of mobile missile equipment checkout at Volgograd; and

   w. the observation of several command, control, and communications developments. (S/WN)

3. The reporting period extends from Two location maps, 27 annotated photographs, two tables, and one chart are included in this report. (S/WN)

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DISCUSSION

Deployed Complexes

4. As of [redacted] 39 of the 40 mobile bases, either in the late stages of construction or complete, were assessed as being capable of maintaining an operational unit (Table 1). Based on previous construction, the 40 bases and the remote site at Drovyanaya will contain 363 SBGs to house SS-20 missiles on launchers. Five of the bases are in the eastern section of Siberia, eight are in the western section of Siberia, ten are in the central section of the USSR, and 17 are in the western section of the USSR. (S/WN) 25X1

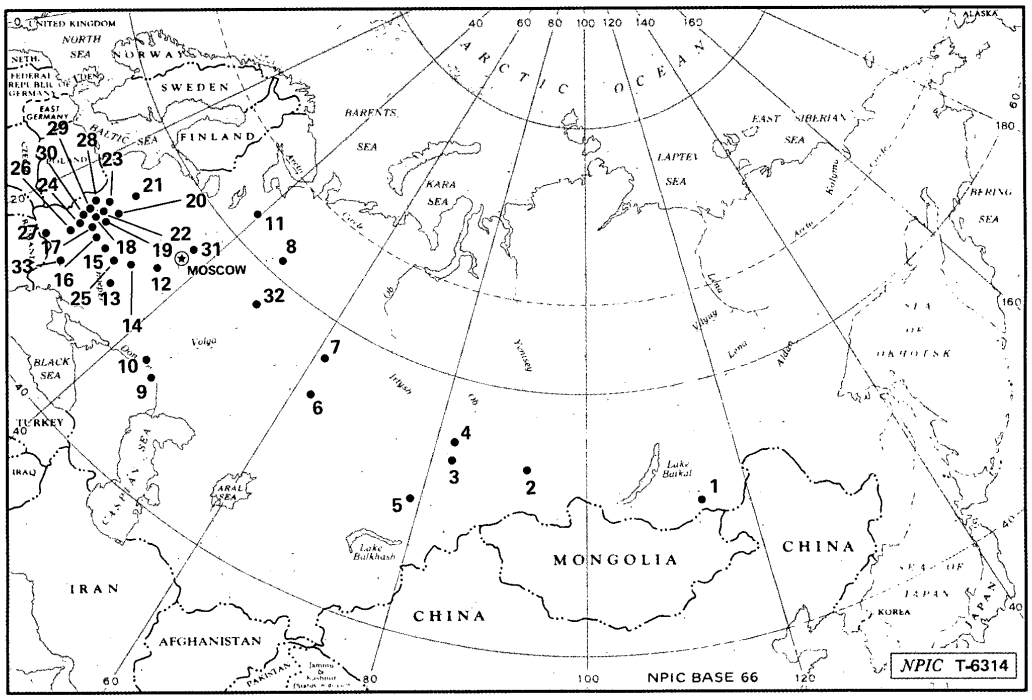

FIGURE 1. LOCATIONS OF SS-16/-20 ACTIVITY IN THE USSR

Item	Installation Name	BE No
1	Drovyanaya Mobile IRBM Base 1	
	Drovyanaya Mobile IRBM Base 2	
	Drovyanaya Mobile IRBM Base 3	
	Drovyanaya Mobile IRBM Base 4	
	Drovyanaya Mobile IRBM Base 5	
	Drovyanaya SS-20 Remote Site 1	
2	Kansk Mobile IRBM Base 1	
	Kansk SS-20 Support Complex	
3	Barnaul Mobile IRBM Base 1	
	Barnaul SS-20 Support Complex	
4	Novosibirsk Mobile IRBM Base 1	
	Novosibirsk Mobile IRBM Base 2	
	Novosibirsk Mobile IRBM Base 3	
	Novosibirsk Mobile IRBM Base 4	
	Novosibirsk Mobile IRBM Base 5	
	Novosibirsk Mobile IRBM Base 6	
5	Semipalatinsk NWPG	
6	Bobrovskiy Missile Support Rear Depot	
7	Verkhnyaya Salda Mobile IRBM Base 1	
	Verkhnyaya Salda Mobile IRBM Base 2	
	Verkhnyaya Salda Mobile IRBM Base 3	
	Verkhnyaya Salda Mobile IRBM Base 4	
	Verkhnyaya Salda Mobile IRBM Base 5	
8	Yurya Mobile IRBM Base 1	
	Yurya Mobile IRBM Base 2	
	Yurya Mobile IRBM Base 3	
	Yurya Mobile IRBM Base 4	
	Yurya Mobile IRBM Base 5	
9	Kapustin Yar Missile/Space Test Center SSM	
10	Volgograd Steel and Machinery Plant Krasnyy Barricada 221	
11	Plesetsk Missile/Space Test Center SSM	
12	Serpukhov SSM Engineering Research Training Facility	
13	Lebedin Mobile IRBM Base 1	
	Lebedin Payload Handling Facility	
14	Bryansk Guided Missile Support Equipment Plant II	
15	Rechitsa Mobile IRBM Support Base	
	Rechitsa Mobile IRBM Base 1A	
	Rechitsa Mobile IRBM Base 1B	
	Rechitsa Mobile IRBM Base 1C	
16	Mozyr Mobile IRBM Base	
17	Konkovichi Mobile IRBM Base	
18	Novaya Mezinovka Missile Support Rear Depot	
19	Gresk Mobile IRBM Base 1	
20	Postavy Mobile IRBM Base	
21	Polotsk Mobile IRBM Base 1	
	Polotsk Mobile IRBM Base 2	
22	Minsk Motor Vehicle and Guided Missile Support Plant	
23	Smorgon Mobile IRBM Base 1	
	Smorgon Mobile IRBM Base 2	
24	Kozhanovichi Mobile IRBM Base	
25	Krolevets Mobile IRBM Base 1	
26	Kivertsy Mobile IRBM Base 2	
	[redacted]	
27	Lutsk Mobile IRBM Base 1	
28	Lida Mobile IRBM Base 1	
29	Dyatlovo Mobile IRBM Base 1	
	Dyatlovo Payload Handling Facility	
30	Slonim Mobile IRBM Base 1	
31	Krasnoarmeysk Solid Motor Development Facility	
32	Glazov Missile Support Rear Depot	
33	Balta Missile Support Rear Depot	

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5. Throughout the reporting period, SS-20-associated vehicles/equipment were observed in or near the operations areas at Drovyanaya SSM Cplx , Novosibirsk SSM Cplx , Verkhnyaya Salda SSM Cplx , Yurya SSM Cplx , Barnaul Mobile IRBM Base 1, and Polotsk Mobile IRBM Base 1. (S/WN) 25X1 25X1X1

Eastern Siberia

6. **Drovyanaya Mobile IRBM Base 3.** On two SA-9 TELs and one associated BTR-60PA command vehicle were in the operations area of this base (Figure 2). This equipment may have been present in early July 1982. This was the first time that SA-9-associated equipment was identified at an SS-20 facility, suggesting that SA-9 may deploy with SS-20 units. (S/WN) 25X1

7. **Drovyanaya Remote Site 1.** On two unidentified cable-connected objects/vehicles were observed. They were not present on This was the first observation of any activity at this facility. (S/WN) 25X1 25X1

8. **Drovyanaya SSM RTP** On an SS-20 warhead handling operation was in progress at the NPHF. Two type I warhead vans, a truck-mounted crane, and a cargo truck were in front of the high, two-bay building. Additionally, two MSVs were in front of one of the 11-bay garages. In September 1982, a similar operation took place, suggesting that periodic maintenance on the existing warheads was occurring or that SS-20 missiles at this complex were being retrofitted with a modernized warhead. (S/WN) 25X1X1

9. SS-20 field training exercises in the Drovyanaya Cplx were as follows:

Location	Date	Remarks
FTA 5C		Camouflaged SS-20 launch
FTA 5A/Rvt		Camouflaged C3 unit
FTA 3C		Camouflaged SS-20 launch battalion
3.4 nm SW of MOB 4 at 51-25-48N 112-50-32E		Camouflaged SS-20 launch battalion
2 nm SW of MOB 4 at 51-22-59N 112-45-01E		Camouflaged C3 unit

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Table 1. Summary of SS-20 Construction at Deployed Areas

This table in its entirety is classified TOP SECRET RUFF

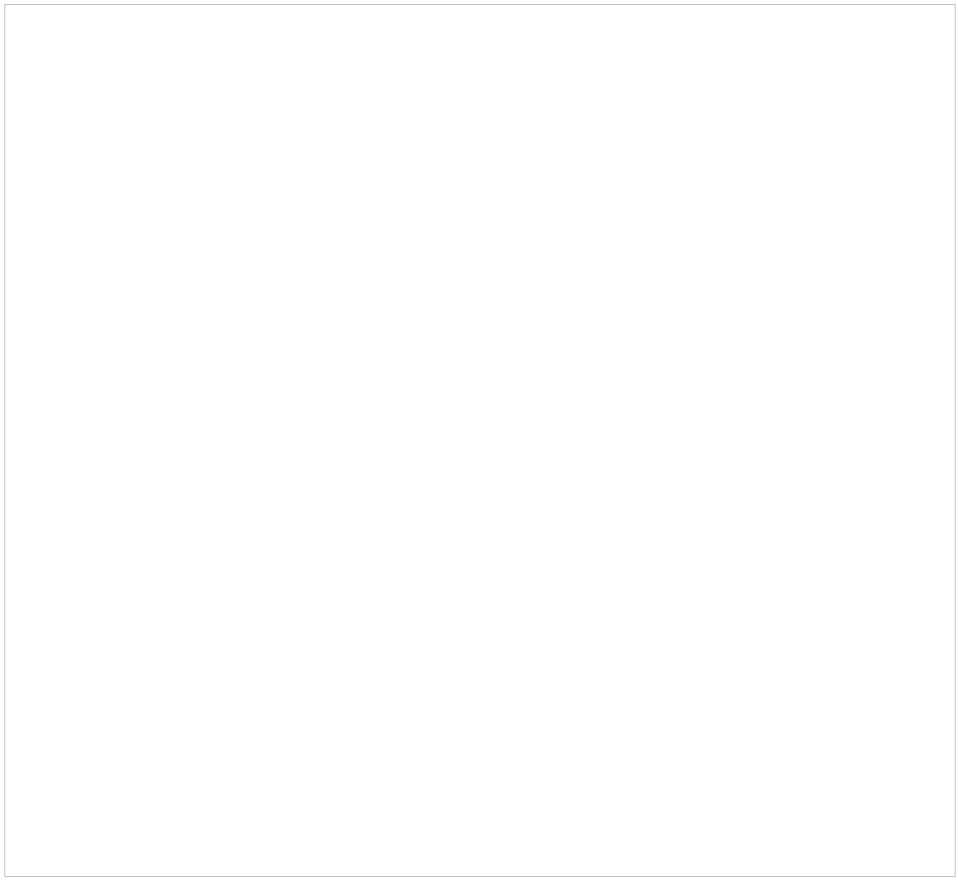
	SSM / Installation Name	First Identified	Date Assessed as Being Operational	Date Last Imaged	OPERATIONS AREA: Single-Bay Garage Comp	Single-Bay Garage Ucon	3-Bay Garage Comp	3-Bay Garage Ucon	4-Bay Garage Comp	4-Bay Garage Ucon	5-Bay Garage Comp	5-Bay Garage Ucon	11-Bay Garage Comp	11-Bay Garage Ucon	GENERAL SUPPORT AREA/NUCLEAR PAYLOAD HANDLING FACILITY: 11-Bay Garage (66 x 18m) Number	11-Bay Garage (66 x 18m) Construction Comp	Tech Support Bldg Number	Tech Support Bldg Construction Comp	High 2-Bay Bldg Number	High 2-Bay Bldg Construction Comp	Clerestory Bldg Number	Clerestory Bldg Construction Comp	Status of Construction at RTP	Remarks/Comments
EASTERN USSR	Drovyanaya Mobile IRBM Base 1				9	–	3	–	–	–	–	–	1	–	1	Yes	0*	–	0*	–	0*	–		25X1
	Drovyanaya Mobile IRBM Base 2				9	–	3	–	–	–	–	–	0	–	2	Yes	0*	–	0*	–	0*	–		1 admin/personnel bldg externally complete in the spt area; 3 stationary SS-20 mockups near the spt area
	Drovyanaya Mobile IRBM Base 3				9	–	3	–	–	–	–	–	0	–	2	Yes	0*	–	0*	–	0*	–		Stationary SS-20 mockups 0.5 nm south of MOB
	Drovyanaya Mobile IRBM Base 4				9	–	–	–	3	–	–	–	0	–	2	Yes	0*	–	0*	–	0*	–		1 admin/personnel bldg and 1 single story bldg complete in spt area
	Drovyanaya Mobile IRBM Base 5				9	–	3	–	–	–	–	–	0	–	2	Yes	0*	–	0*	–	0*	–		3 SS-11 canisters being buried in spt area
	Drovyanaya Remote Site 1				3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		
CENTRAL USSR	Barnaul Mobile IRBM Base 1				9	–	–	–	–	–	3	–	–	–	1	Yes		Barnaul SS-20 Spt Cplx					Ucon at Spt Cplx	Assessed to be operational, and first identification SS-20 equipment
	Kansk Mobile IRBM Base 1				–	9	–	–	–	–	–	3	–	–	1	No		Kansk SS-20 Spt Cplx					Ucon at Spt Cplx	
	Novosibirsk Mobile IRBM Base 1				9	–	–	–	3	–	–	–	0	–	2	Yes	0*	–	0*	–	0*	–	Complete	C-shaped bldg ucon
	Novosibirsk Mobile IRBM Base 2				9	–	–	–	3	–	–	–	0	–	2	Yes	0*	–	0*	–	0*	–		1 bldg in late stage of const in spt area
	Novosibirsk Mobile IRBM Base 3				9	–	–	–	3	–	–	–	0	–	2	Yes	0*	–	0*	–	0*	–		
	Novosibirsk Mobile IRBM Base 4				9	–	–	–	3	–	–	–	0	–	1	Yes	0*	–	0*	–	0*	–		
	Novosibirsk Mobile IRBM Base 5				9	–	–	–	3	–	–	–	0	–	2	Yes	0*	–	0*	–	0*	–		
	Novosibirsk Mobile IRBM Base 6				9	–	–	–	–	–	3	–	–	–	2**	Yes	–	–	–	–	–	–		2 bldgs ucon in spt area;
	Verkhnyaya Salda Mobile IRBM Base 1				9	–	3	–	–	–	–	–	0	–	2	Yes	0*	–	0*	–	0*	–	Complete; SBG in receiving/ storage area	Footings for 1 bldg ucon in spt area; SS-20 stationary mockups between ops and spt area
	Verkhnyaya Salda Mobile IRBM Base 2				9	–	3	–	–	–	–	–	0	–	2	Yes	0*	–	0*	–	0*	–		SS-20 stationary mockups near dismantled SS-7 silos
	Verkhnyaya Salda Mobile IRBM Base 3				9	–	3	–	–	–	–	–	0	–	1	Yes	0*	–	0*	–	0*	–		SS-20 stationary mockups in operations area
	Verkhnyaya Salda Mobile IRBM Base 4				9	–	3	–	–	–	–	–	0	–	0	–	0*	–	0*	–	0*	–		SS-20 stationary mockups at the south edge of operations area
	Verkhnyaya Salda Mobile IRBM Base 5				9	–	3	–	–	–	–	–	0	–	1	Yes	0*	–	0*	–	0*	–		SS-20 stationary mockups in spt area
	Yurya Mobile IRBM Base 1				9	–	3	–	–	–	–	–	0	–	1	Yes	0*	–	0*	–	0*	–	Complete	Three SS-20 stationary mockups ucon in spt area
	Yurya Mobile IRBM Base 2				9	–	3	–	–	–	–	–	0	–	1	Yes	0*	–	0*	–	0*	–		SS-20 stationary mockups near the athletic field
	Yurya Mobile IRBM Base 3				9	–	3	–	–	–	–	–	0	–	1	Yes	0*	–	0*	–	0*	–		SS-20 stationary mockups adjacent C3 area
	Yurya Mobile IRBM Base 4				9	–	3	–	–	–	–	–	0	–	1	Yes	0*	–	0*	–	0*	–		
	Yurya Mobile IRBM Base 5				9	–	3	–	–	–	–	–	0	–	1	Yes	0*	–	0*	–	0*	–		
WESTERN USSR	Konkovichi Mobile IRBM Base				9	–	3	–	–	–	–	–	1	–	2	Yes	1	Yes	1	Yes	1	Yes	Expansion of RTP complete	SS-20 TEL with canister mockup in spt area in wooded area near the C-shaped C3 bldg
	Kozhanovichi Mobile IRBM Base				9	–	3	–	–	–	–	–	1	–	2	Yes	1	Yes	1	Yes	1	Yes	Former SS-4 RTP has not been expanded	
	Krolevets Mobile IRBM Base				9	–	–	–	3	–	–	–	0	–	1	Yes	1	No	1	No	0	No	Expansion of RTP	
	Moryr Mobile IRBM Base/Training Facility				9	–	3	–	–	–	–	–	0	–	3	Yes	1	Yes	1	Yes	1	Yes	Complete	Tenth single-bay garage adjacent to clerestory bldg; a large C-shaped bldg, a multistory dormitory, and a third large bldg in very late stage constr in spt area
	Postavy Mobile IRBM Base				9	–	3	–	–	–	–	–	0	–	2	Yes	1	Yes	1	Yes	1	Yes	Expansion of RTP complete; heliport ucon	SS-20 stationary mockups in spt area
	Smorgon Mobile IRBM Base 1				9	–	–	–	3	–	–	–	0	–	2	Yes	1	Yes	1	Yes	0	–	Expansion of RTP complete	
	Smorgon Mobile IRBM Base 2				9	–	–	–	3	–	–	–	0	–	1	Yes	0	–	0	–	0	–		6-bay garage ucon in ops area; MSV stationary mockup in spt area
	Rechitsa Mobile IRBM Support Base				–	–	–	–	–	–	–	–	–	–	2	Yes	1	Yes	1	Yes	1	Yes	Complete	NWSF ucon; 2 bldgs ucon in spt area
	Rechitsa Mobile IRBM Base 1A				3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		
	Rechitsa Mobile IRBM Base 1B				3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		
	Rechitsa Mobile IRBM Base 1C				3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		
	Polotsk Mobile IRBM Base 1				9	–	3	–	–	–	–	–	0	–	2	Yes	1	Yes	1		1	Yes	Expansion of RTP complete	SS-20 stationary mockups in former SS-4 NIWHF
	Polotsk Mobile IRBM Base 2				9	–	–	–	3	–	–	–	0	–	1	Yes	0	–	0	–	0	–		
	Lida Mobile IRBM Base 1				9	–	–	–	3	–	–	–	0	–	1	Yes	0	–	0	–	0	–	No RTP associated when SS-4 or now as SS-20 Base	
	Gresk Mobile IRBM Base 1				9	–	–	–	3	–	–	–	0	–	1	Yes	1	No	1	No	1	No	No RTP associated when SS-4 or now as SS-20 Base	2 bldgs in late stage construction in spt area; SS-20 mockups in ops area
	Lutsk Mobile IRBM Base 1				9	–	–	–	3	–	–	–	0	–	1	Yes	0	–	0	–	0	–	No RTP associated when SS-4 or now as SS-20 BAse	3 bldgs ucon in spt area
	Kivertsy Mobile IRBM Base 2				9	–	–	–	3	–	–	–	1**	–	1**	Yes							Scratch built RTP ucon	
	Lebedin Mobile IRBM Base 1				9	–	–	–	3	–	–	–	0	–	1	Yes	Lebedin Payload Handling Facility						Expansion of RTP complete	
	Dyatlovo Mobile IRBM Base 1				9	0	–	–	3	–	–	–	0	1	0	–	Dyatlovo Payload Handling Facility						RTP associated when SS-4	foundations for prob 12-bay garage approx 0.5 nm north of this base
	Slonim Mobile IRBM Base 1				9	0	–	–	3	–	–	–	0	–	1	Yes	0	–	0	–	0	–	Scratch built RTP ucon	

Red indicates changes since [ ] the cutoff date of the updated report [ ]

*The former SS-7 ICBM complexes in the central and eastern USSR currently have construction or complete at their RTPs; these areas consist of high two-bay, technical support, and clerestory buildings.

**Ten-bay garages

RCA-01/0003/83



2 nm west of MOB 5 at 51-24-14N 112-49-42E		Camouflaged C3 unit
FTA 3B/Rvt		Camouflaged SS-20 launch battalion
FTA 2A/Rvt		Six unidentified camouflaged vehicles
FTA 1C/Rvt		Camouflaged SS-20 launch battalion
Adjacent to MOB 5 at 51-23-09N 112-49-29E	(TSR)	Three camouflaged vehicles

Western Siberia

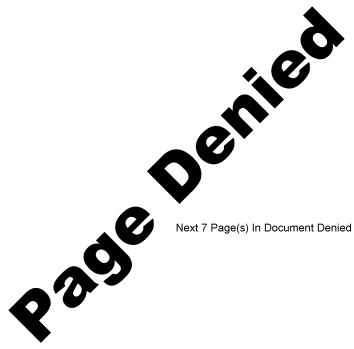
10. **Barnaul Mobile IRBM Base 1.** This newly identified SS-20, scratch-built base, the 39th in the Soviet Union and 22 nm north of Barnaul, was first observed under construction on imagery of [redacted] construction had not begun. The base consists of three separately secured SS-20 launch battalion areas, a C3 area, and a general support area. On [redacted] the three battalion areas, each consisting of three SBGs and one five-bay garage, were in various stages of construction (Figure 3). In one battalion area, the three SBGs and the five-bay garage—all with parking aprons—were externally complete; however, cable trenches extended from two of the SBGs to the five-bay garage. In the second battalion area, two of the SBGs and the five-bay garage were externally complete, and the third SBG was in the midstage of construction. In the third battalion area, three SBGs were in the early stage of construction, and the five-bay garage was in the late stage of construction; however, cable trenches extended from two of the SBGs to the five-bay garage. The C3 area, in the late stage of construction, consisted of a three-story C3 building with a probable antenna array on the roof, a nine-bay garage, and two steel lattice towers. The general support area, in the early stage of construction, consisted of administration/housing buildings, a steamplant, and an 11-bay garage. Two temporary support areas were near the general support area. By [redacted] the facilities at Barnaul Mobile IRBM Base 1 were externally complete, and the base was assessed as being capable of maintaining an operational SS-20 regiment. A TEL with a probable training canister and a camouflaged vehicle (Figure 4) were near the five-bay garage in one battalion area, and a camouflaged vehicle was near the five-bay garage in each of the other two battalion areas. (S/WN)

11. **Barnaul SS-20 Support Cplx.** This newly identified, scratch-built, SS-20 support complex is 12 nm northeast of Barnaul and 14 nm southwest of the new base. By [redacted] grading for the support complex had begun. On [redacted] construction was not underway. On [redacted] the complex (Figure 5) was in the midstage of construction and consisted of a [redacted]—containing an 11-bay garage; a high, two-bay building; a technical support building; and a vehicle shed (all in various stages of construction; Figure 6)—[redacted] in the midstage of construction; an RTP (Figure 8) in the midstage of construction; an administration area; an electrical substation; a large apartment area; and a temporary support area. By [redacted] a division-level headquarters, identified on [redacted] was in the late stage of construction in the support complex. The headquarters—consisting of a three-story C3 building with two probable antenna arrays on the roof, two steel lattice towers, and one multistory headquarters/administration building (Figure 9)—is the first scratch-built, SS-20 division-level headquarters. Similar three-story C3 buildings with one probable antenna array, instead of two, on the roof are at several SS-20 regimental-level headquarters. The high, two-bay garage and the technical support building at the [redacted] were in the late stage of construction; however, the 11-bay garage and the vehicle shed remained in an early stage of construction. [redacted]

12. **Kansk Mobile IRBM Base 1.** This newly identified SS-20 base, the 40th in the Soviet Union and approximately 14 nm northwest of Kansk, was first observed under construction on imagery of [redacted] construction had not begun. On [redacted] this scratch-built base—in the early stage of construction—consisted of foundations for nine SBGs, three five-bay garages, and one 10-bay garage. A construction camp was nearby. By [redacted] two of the three five-bay garages were in the late stage of construction; however, the other five-bay garage and the nine SBGs remained in an early stage of construction. Several other buildings were in various stages of construction in the support area (Figure 11). (S/WN)

13. **Kansk SS-20 Support Cplx.** This newly identified scratch-built SS-20 support cplx, 4 nm northwest of Kansk and 10 nm southeast of Kansk Mobile IRBM Base 1, was first observed under construction on [redacted] construction had not begun. On [redacted] the complex—consisting of a NPHF, an RTP, and a housing/administration area—was in an early stage of construction. On [redacted] the [redacted] consisted of a high, two-bay building and a technical support building in the late stages of construction. A foundation for a vehicle shed was adjacent to the technical support building (Figure 12). In addition, a second foundation for a multibay garage was just north of the [redacted]. The RTP and the housing/administration area were in various stages of construction, [redacted] was in an early stage of construction. (S/WN)

(Continued p. 13)



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14. **Novosibirsk Mobile IRBM Base 5.** On [redacted] three sets of SS-20 TEL leveling jack imprints/clearings were on the loop road surrounding the dismantled SS-7 silos, indicating that an exercise had taken place. On [redacted] the sliding roof and front doors of one of the SBGs were open. No equipment was observed inside the garage. (S/WN) 25X1 25X1

15. **Novosibirsk IRBM RTP** [redacted] On [redacted] seven railcars were in the transloading area. An empty probable TEL was present and may have just been offloaded. This probable TEL may be for Novosibirsk Mobile IRBM Base 6, assessed to have been operational on [redacted] (S/WN) 25X1 25X1

16. SS-20 field training exercises in the Novosibirsk Cplx were as follow:

Location	Date	Remark
0.6 nm NE of the RTP at 51-18-08N 082-59-14E	[redacted]	C3 unit

25X1

Central USSR

17. **Yurya Mobile IRBM Base 2.** On [redacted] stationary mockups of three TELs with canisters and two MSVs (Figure 13) were identified along the tree line near the athletic field in the support area. These mockups were under construction on [redacted] (S/WN) 25X1 25X1

18. **Yurya Mobile IRBM Base 3.** On [redacted] seven stationary SS-20 vehicle mockups appeared to be nearly complete. The mockups consisted of three TELs with canisters, three MSVs, and one van-type truck. The mockups, under construction since [redacted] were in a cleared area near the separately secured C3 area. (S/WN) 25X1 25X1

19. **Yurya SSM Launch Position 6 (LP 6)** [redacted] SS-20-associated activity was observed at this dismantled SS-7 ICBM launch site. Three sets of SS-20 TEL leveling jack imprints/clearings were on the loop road near the destroyed SS-7 silos (Figure 14). Additionally, a convoy of one UAZ-69 and eight cargo trucks was leaving the support area, and a bus and a truck were in the support area. Extensive track activity was observed near the former missile-ready bunkers and in the nearby driver-training areas. (S/WN) 25X1

20. Little or no activity of any type has been observed at LP 6 since its dismantlement in 1977. Five of the 11 former SS-7 launch sites in the Yurya Cplx have been converted to SS-20 bases, and the closest base is Yurya Mobile IRBM Base 1, 4 nm northwest of LP 6. The SS-20-associated activity on [redacted] at LP 6 may indicate that this facility is being used as a training area for SS-20 crews or as a storage area. (S/WN) 25X1

Western USSR

21. **Kivertsy Mobile IRBM Base 2.** On [redacted] this base was assessed as being operational. Since [redacted] construction has been complete on the three four-bay garages, the two 10-bay garages, and the C3 building. The nine SBGs were complete in October 1982 (Figure 15). The snow had been cleared in front of each of the SBGs and the four-bay garages. Additionally, three SS-20-associated vehicles/mockups were in the nearby [redacted] (Figure 16). This base had been under construction since at least [redacted] (S/WN) 25X1 25X1 225X1 25X1 25X1

[redacted]

[redacted] 25X1

25X1

23. **Kivertsy Prob Mobile IRBM RTP** This newly identified, probable SS-20 associated RTP was in the early stage of construction on The RTP—consisting of a 415- by 19-meter elevated area with a 65-meter-diameter elevated loop road—is 15 nm east of Lutsk Mobile IRBM Base 1, 7.5 nm southwest of Kivertsy Mobile IRBM Base 2 and 3.3 nm southwest of Kivertsy The facility is served by four parallel rail spurs, two of which terminate at loading platforms, and an access road that connects the loop road (Figure 17) and the elevated area with a nearby road. The RTP, configured similarly to Lebedin Mobile IRBM R/RTP , was the first RTP identified near Kivertsy or Lutsk. The RTP will probably serve the three SS-20 facilities in the Lutsk Div. (S/WN)

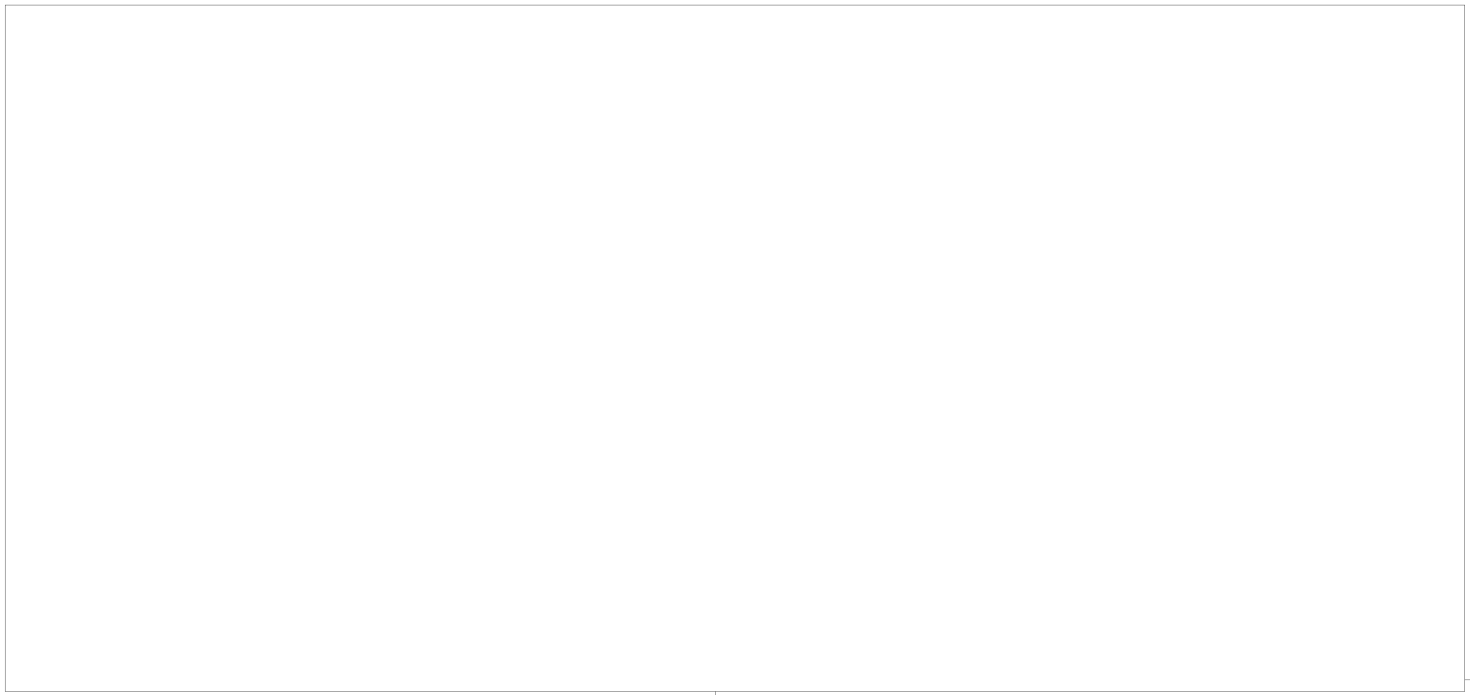
25X1
25X1
25X1
25X1
25X1

24. **Krolevets Mobile IRBM Base 1.** On was under construction between the general support area and the temporary support area. A high, two-bay building and a technical support building were in an early stage of construction. Tree clearing, in preparation for the began after and building construction was first observed on imagery of In addition, the regimental headquarters—consisting of a three-story C3 building with a probable antenna array on

25X1
25X1
25X1
25X1

25X1

25X1



25X1

the roof, an 11-bay garage, two steel lattice towers, and two horizontal dipole antennas—has been under construction since at least and appeared to be complete on (S/WN)

25X1

25. **Krolevets IRBM RTP** (On two large transfer sheds (with a rail spur probably running through the sheds) and a loop road (Figure 18) adjacent to the transfer sheds were complete. Since expansion and improvement activity has been underway, and on supports for one transfer shed and clearing for the loop road were observed. (S/WN)

25X1

25X1

25X1

26. **Lebedin Mobile IRBM Base 1.** On three sets of SS-20 TEL leveling jack imprints/clearings were in the southeast corner of the operations area. All three sets had a third imprint/clearing at the rear of the pattern, suggesting that missile canister erection exercises had occurred. (S/WN)

25X1

27. **Slonim Mobile IRBM RTP** On an SS-20-associated RTP was identified 8 nm southwest of Slonim Mobile IRBM Base 1. The RTP appeared to be complete and was probably operational. Construction on the RTP began after The RTP consisted of four rail spurs, two transfer sheds (with a rail spur running through the sheds), a side loading platform, and a loop road (Figure 19). In addition, a road extending from Slonim SSM Launch Position 7 deactivated MRBM Launch Site 1), 4.3 nm northeast of the RTP, connects with an access road serving the RTP. (S/WN)

25X1

25X1

25X1

Missile Support Rear Depots

28. **Balta MSRD.** During the reporting period, SBG components continued to arrive at this MSRD. On there were enough components (Figure 20) for 12 SBGs, and by there were enough components for at least 15 SBGs. (S/WN)

25X1

29. **Glazov MSRD.** No additional SBG components were identified during the reporting period. On 6 January, there were enough components for 15 SBGs. (S/WN)

30. **Novaya Mezinovka MSRD.** This MSRD was not observed during the reporting period. (S/WN)

RCA-01/0003/83

25X1

Missile Test Centers

Kapustin Yar Missile/Space Test Center SSM

31. Eight of the 12 SS-20-associated facilities and crew training areas were imaged during the reporting period. Field training activity at a previously abandoned test site in launch complex C was observed, new construction at an LTS in launch complex C continued, construction of a new probable LTS in launch complex C was identified, and construction at Kapustin Yar GSA (and at Kapustin Yar Missile RISA was identified. DEFSMAC reported the launch of an SS-20-type missile from Kapustin Yar on (DEFSMAC S/DQ/68-83 and S/DQ/72-83). The launch point for this launch was not determined. (S/WN) 25X1 25X1 25X1

32. **Kapustin Yar C6 SSM Test Position (** From until the end of the reporting period, SS-20 field training activity was observed at this abandoned test site. This activity, observed on seven occasions, primarily involved a camouflaged battalion-size launch unit (consisting of two probable SS-20 TELs, two or three probable MSVs, and a probable BTR-60PA command vehicle), a probable C3 unit (consisting of up to eight MSVs and a probable BTR-60PA command vehicle), and an unidentified unit (consisting of four to five vehicles, some of which may have been MSVs; Figure 21). During this reporting period, the launch unit was repositioned within the site, and, on some occasions, the C3 unit was not present. On a probable AAD was positioned at the front of one of the TELs. This was the first identification of SS-20-associated activity at this site. Site C6, consisting of three silos under construction and believed to be related to solid-propellant missile testing, was first observed in May 1966. Construction of the silos was stopped in April 1968; no activity has been observed since that date. (S/WN) 25X1 25X1 25X1 25X1

33. **Kapustin Yar MR Test Cplx C Site 2** During the reporting period, new construction was observed. On footings for a new building were in an area southwest of LP 2C-2. By the end of the reporting period, initial excavation for a second building was observed west of LP 2C-2. The reason for this construction has not been determined. (S/WN) 25X1 25X1

34. **Kapustin Yar MR Test Cplx C Site 8** By the end of the reporting period, all major construction for both LP 8C-1 and LP 8C-2 had been completed. In addition, only one of the four 25X1 25X1

 25X1

40-man tents remained in the support area, and no other construction-related equipment was observed. Site 8C could support missile launch test activity during 1983. Since November 1981, new missile receiving and checkout buildings have been under construction at Kapustin Yar GSA and, since August 1980, at Kapustin Yar Missile RISA. Because of the time at which construction was begun on Site 8C (in October 1981) and because new missile-handling facilities are under construction at two facilities that have provided support for the SS-20, Site 8C may support the flight test program of a new strategic mobile missile system. (S/WN)

35. **Kapustin Yar GSA.** Construction, adjacent to the south end of the facility, continued throughout the reporting period. By [redacted] the roof of the new missile receiving and checkout building had been completed, and footings for two additional new buildings (Figure 22) had been identified. Also, on [redacted] activity associated with the delivery of SS-20-size missiles to Kapustin Yar was observed. Two camouflaged, probable SS-20-towed canister dollies, one rail dolly, and three probable missile-associated railcars were in the missile receiving and checkout area at the southwest end of the GSA. In addition, nine camouflaged, mobile missile-associated vehicles, five probable [redacted] MSVs, one probable [redacted] MSV, and two unidentified vehicles were on the aprons near the new clerestory building at the north end of the facility. (S/WN) 25X1 25X1 25X1 25X1 25X1

36. **Kapustin Yar RISA.** During the reporting period, construction of the new missile-associated buildings at the north end of the facility progressed slowly. (S/WN)

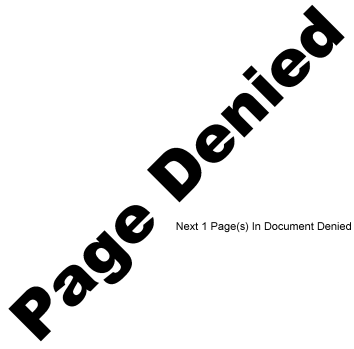
Plesetsk Missile/Space Test Center SSM

37. **Mobile ICBM-Associated Bases.** All four of the mobile ICBM-associated bases—Mobile ICBM Facility 1 (MOB 1; [redacted] Mobile ICBM Facility 2 (MOB 2; [redacted] ICBM LTS 5 [redacted] and ICBM LTS 6 [redacted]—and six of the seven mobile ICBM-associated support/launch test facilities were imaged during this reporting period. A recurring snow removal pattern, associated with the 42 LRPs during the 1982-83 winter season, was observed, pre- and postlaunch activity at a LTS associated with a new small-size, solid-propellant ICBM was observed, construction of facilities to support a rail-mobile ICBM was observed, and continuing construction of a new, probable missile receiving and checkout area for an unidentified-size, solid-propellant ICBM was observed. (TSR) 25X1 25X1

38. All 42 LRPs at the four mobile ICBM bases (Chart 1) were observed at least once. Canvas-covered probable AADs were detected occasionally in some of the LRPs. The snow removal pattern, observed for the last six years at these four bases, continued into the 1982-83 winter season. Analysis of the snow removal pattern indicates that the Soviets are principally concerned with maintaining accessibility to the LRPs. Therefore, when snow accumulation is light, the snow may not be removed from an LRP if it is readily accessible. During the reporting period, it was evident that snow did not prevent easy access 25X1

[redacted]

FIGURE 22. NEW CONSTRUCTION AREA AT KAPUSTIN YAR GSA



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to the LRPs; (probable AADs in LRPs that had not been completely cleared of snow were occasionally detected). As a result, the legend in Chart 1 has been modified to reflect this analysis. (TSR)

39. **MOB 1 and MOB 2.** One additional quonset-type garage was dismantled during mid-December at MOB 1 and during early January at MOB 2. The 12 original garages (six each at MOB 1 and MOB 2) had been installed by May 1975; although they may have been intended to house mobile missile-associated GSE, only nonmissile-related equipment (i.e., MAZ-543 cargo trucks, buses, snowplows, unidentified crates/POE) has been observed at or near these garages. The reason for the dismantlement of these garages, has not been determined. The three remaining quonset-type garages at each base have not been dismantled. This type garage was not installed in the operations area of LTS 5 and LTS 6. In addition, at MOB 1, probable TEL leveling jack imprints/clearings were next to the high, single-bay calibration building on 8 March. It appeared that a light snow had fallen since the positions were cleared. These positions were not present when the facility was observed on [redacted] (S/WN) 25X1

40. **Plesetsk ICBM LTS 21 ([redacted])** No significant activity was observed. (S/WN) 25X1

41. **Plesetsk ICBM LTS 23 [redacted] and collocated LTS 24 [redacted]** During the reporting period, pre- and postlaunch activity was observed at these sites. On [redacted] a can/cap transporter (previously associated with probable silo/GSE compatibility testing at these sites in September 1981 and June 1982) was observed on the turnaround apron at LTS 24. DEFSMAC reported the launch of a new ICBM (now designated the PL-05) on [redacted] (DEFSMAC S/DQ 98-83), and postlaunch imagery revealed that the launch point was LTS 23, where a 30-meter-diameter pock-marked pattern in the snow (Figure 23) surrounded the silo door. Except for a small number of pock marks, the snow on the roof of the Type C SBG was undisturbed. Silo loading prior to this launch, as well as silo unloading after this launch, was not observed. On [redacted] the can/cap transporter was last observed at these sites. (S/WN) 25X1 25X1 25X1 25X1

42. **Plesetsk MHF [redacted]** Modification/construction in the SS-16/PL-05 RIC area continued. By the end of the reporting period, the new clerestory building had been externally completed, while the nine-bay garage was in the midstage of construction (Figure 24). During this period, the two-bay shed was also completed. Since May 1982, components for a second SBG have been in the MHF and are being stored beside the railshed in the modified SS-16/PL-05 RIC area. During most of the reporting period, the can/cap silo loader and transporter, present since [redacted] remained under the shedlike extension to the modified SS-16/PL-05 RIC building. However, from [redacted] neither the can/cap loader nor the transporter was observed. During the time this equipment was not observed at the MHF, pre- and postlaunch activity at LTSs 23 and 24 was observed. By [redacted] both the can/cap loader and the transporter were under the shedlike extension to the modified SS-16/PL-05 RIC building. From [redacted] [redacted] through the end of the reporting period, the can/cap loader and the transporter were not observed. (S/WN) 25X1 25X1 25X1 25X1 25X1 25X1

Rail Line Construction at Plesetsk

43. Throughout the reporting period, construction on the eastern extension of the main complex rail line continued. By the end of the reporting period, rails had been laid for approximately the first 20 nm of the approximately 30-nm extension, and other sections of the railbed were being prepared up to approximately 5 nm west of LTS 28 (Figure 25). The eastern rail extension, under construction since August 1980, parallels the main complex road serving the eastern end of the rangehead. Based on the steady pace of construction, rails could be installed up to LTS 28 by late 1983. (S/WN)

Construction in Support of a Rail-mobile ICBM

44. A rail-served, probable ICBM launch test facility, adjacent to Plesetsk ICBM LTS 28 (BE [redacted] is under construction. The construction of this facility there suggests that the SS-X-24 may also be tested in a rail-mobile mode. LTS 28 is one of the launch sites supporting the SS-X-24 new medium-solid ICBM flight test program. In January, new tree clearing and grading for a new rail spur were observed adjacent to the north side of LTS 28 (Figure 26) at the eastern end of the rangehead. Since late 1982, this rail spur has been under construction, which has included the repositioning of the original site security fence along the northern perimeter of LTS 28, extensive tree clearing, extensive excavating, and leveling. By the end of the reporting period, a probable buried launch control building, in the new rail-served area, was in the early stage of construction. At this construction stage, the building appears identical to that constructed between the SS-X-24 silos at LTS 28 (Figure 27), suggesting that at least one rail-served launch test position will be constructed in the new area. The foundation for the building, approximately 30 meters long, is divided into three sections. The end-sections are each approximately [redacted] The center section, probably with a personnel access, is approximately [redacted] meters. A probable instrumentation position is under construction west of the probable buried launch control building. A set of three such positions (with direct line of sight) was installed for each of the silos at LTS 28, and a set was also installed at Plesetsk ICBM LTS 22 [redacted] Other buildings under construction include an approximately 50-meter long, rail-served structure and a possible support building, approximately 40 meters long. It does not appear that the support building will be rail served. When the rail extension is complete, an SS-X-24 could be prepared for flight testing in the Plesetsk MHF and then transported by rail to the new rail-served facility. As of this reporting period, SS-X-24 are transported—a distance of approximately 50 nm—from the MHF, by road, to the test facilities in the eastern portion of the test range. The SS-X-24 has been flight tested three times from Plesetsk, twice from silo 28A and once from the silo at LTS 22. (S/WN) 25X1 25X1 25X1

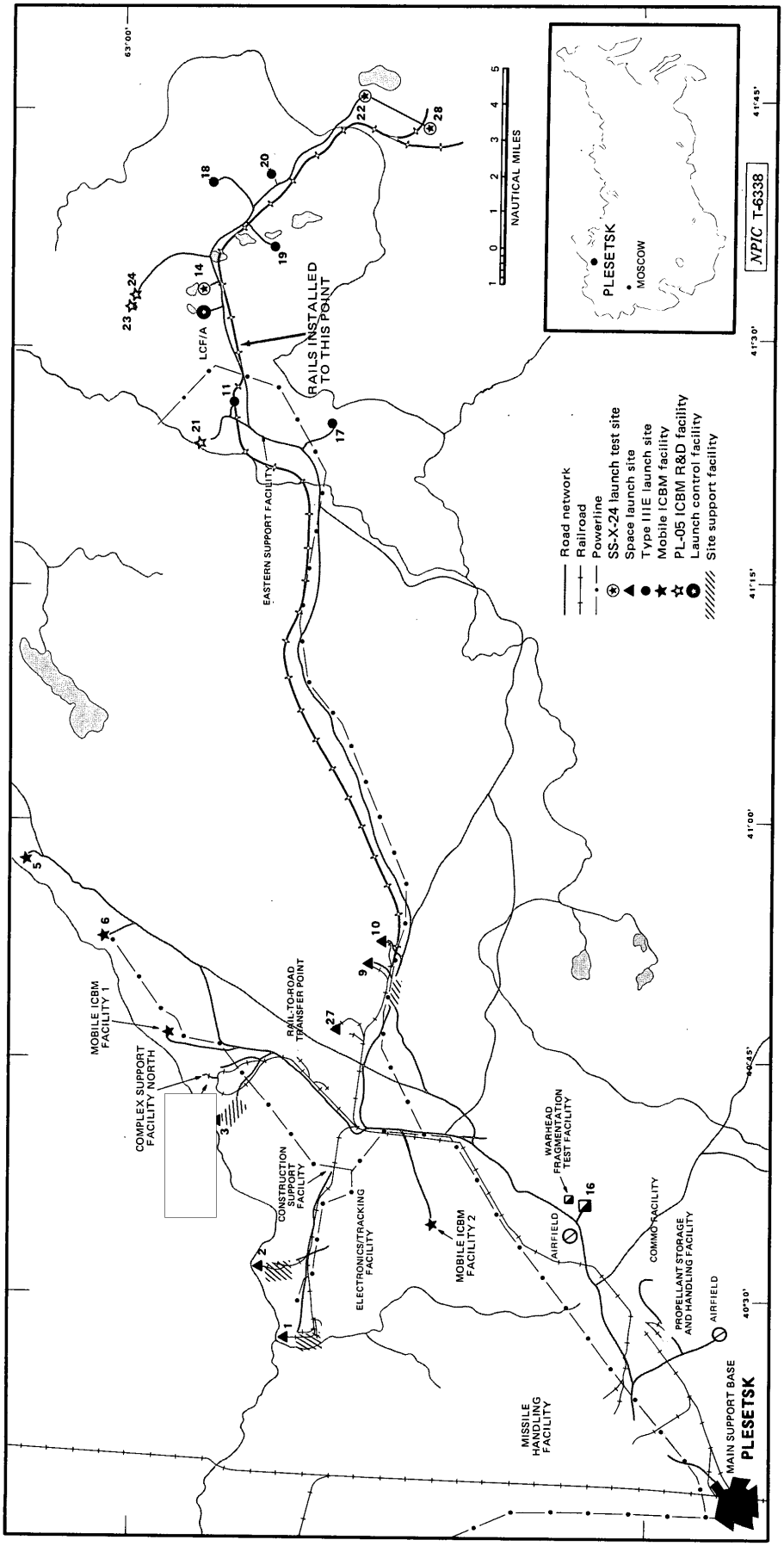

FIGURE 25. MAP OF PLESETSK RAIL EXTENSION

25X1

25X1

Construction in Support of an Unidentified Solid-Propellant ICBM

45. Construction has progressed rapidly during the reporting period at the probable MRACA for an unidentified-size, solid-propellant ICBM (Figure 24). By [redacted] about 85 percent of the new, large, high, two-bay, probable missile receiving and checkout building had been externally completed. A similar building in the SS-X-24 MRACA took over two years to reach this stage of construction. An unidentified building (previously reported as a transloading dock), a railshed/rail-through building, and a possible multibay garage—adjacent to the unidentified building—were in the early stages of construction. Three rail spurs that will extend through the probable missile receiving and checkout building to the unidentified building were also observed; a fourth probable rail spur that will extend to the south from the mid-point of the eastern rail spur was in the early stage of construction. At the end of the fourth probable rail spur, footings for an unidentified structure were observed, and a small support building was under construction west of the unidentified structure. A swath, for a security fence, has been cut through the trees around the probable MRACA. If no other major buildings are constructed at this facility, the probable MRACA could be complete by late 1983. (S/WN) 25X1

Production Facilities

Bryansk Guided Missile Support Equipment Plant II [redacted] 25X1

46. Components for SBGs continued to be produced and apparently shipped from this plant. On [redacted] 25X1
[redacted] dates of the last two of a total of four plant observations, 24 split-roof end-sections, 25X1
enough for six SBGs, were in the rail transshipment yard at Bryansk. Other components included 24 split-roof end-sections, six corner posts, 24 sliding roof sections, wall stanchions, and outside wall panels. Additionally, sliding roof sections for at least three SBGs remained by the checkout/shop building at the rail siding. (S/WN)

Volgograd Remote Test Facility 3 [redacted] 25X1

47. During this reporting period, this facility continued to be used for testing mobile missile equipment. A mobile missile TEL with an [redacted] load simulator was observed on the road near 25X1
the SBG. The TEL's location and the presence of small, but unidentifiable, equipment indicate that calibration operations were most likely in progress. The equipment arrived at the facility between [redacted] 25X1
[redacted] the equipment was not present. (S/WN) 25X1

Command, Control, and Communications Activity

48. During the reporting period, significant C3 developments (Table 2) included the following:

a. the identification of the first scratch-built SS-20 division-level headquarters under con - struction at Barnaul SS-20 Support Cplx and a new regimental headquarters under construction at Barnaul Mobile IRBM Base 1 (see paragraph 10 and 11 for details);

b. the completion of three regimental headquarters at Krolevets IRBM Base 1 (see paragraph 24 for details); Kivertsy Mobile IRBM Base 2 (see paragraph 21 for details); and Novosibirsk Mobile IRBM Base 6;

c. the first identification of probable retractable antenna masts on three-bay garages at Drovyanaya Mobile IRBM Base 2;

d. the first observation of a [redacted] MSV at Novopetrovskoye SRF Radio Communications 25X1
Transmitter Cplx [redacted] 25X1

e. the modification of the Romny Division Command Post/Bnk [redacted] 25X1

f. the continued construction of previously reported irregularly-shaped, unidentified buildings at Konkovichi Mobile IRBM Base, Rechitsa Mobile IRBM Support Base, and Postavy Mobile IRBM Base, and the recent identification of identical buildings under construction at Polotsk Mobile IRBM Base 2, Yoshkar-Ola ICBM Cplx CP/Bnk/Hd [redacted] and 25X1
the Plesetsk SRF Army Missile and Space Test Cplx Communications Center [redacted] 25X1
[redacted] 25X1

g. the construction of four new lattice towers at Novosibirsk ICBM Cplx Cp/Bnk [redacted] 25X1
[redacted] 25X1

h. the temporary dismantlement of a mast-mounted TWIN EAR antenna at Drovyanaya Radcom Rcvr/Bnk/Hd [redacted] 25X1

i. the identification of a truck mounted TWIN EAR unit at Drovyanaya ICBM Cplx CP/Alt/Bnk [redacted] and 25X1

j. the identification of a lattice tower at Verkhnyaya Salda Mobile IRBM Base 5. (S/WN)

49. By [redacted] construction had been completed on the regimental headquarters at 25X1
Novosibirsk Mobile IRBM Base 6. This facility consists of a three-story rectangular control building, a 10-bay garage, and two lattice towers. (S/WN)

(Continued p. 29)

Table 2. C3 Developments at Deployed SS-20-Associated Facilities as of [redacted] 25X1

This table in its entirety is classified TOP SECRET RUFF

		ANTENNAS ADDED SINCE SS-20 ACTIVITY WAS FIRST OBSERVED								PRESENT ANTENNA INVENTORY															
	Active - Deactivated Under Construction	30-Meter Lattice Tower	Roof-Mounted Arrays (TULEL-Q1)	Horizontal Dipole Antennas	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Lattice Towers (all types)	Horizontal Dipole Antennas	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Large C-Shaped C3 Bldg	Small C-Shaped C3 Bldg	Rectangular Bldg Assoc w/Small C-Shaped Bldg	3-Story Rectangular C3 Bldg	Bunker Modification Yes/No Completed	Communications Satellite Station	Mobile TWIN EAR Unit Regularly Seen	Comments
CHITA SRF ARMY																								
Drovyanaya ICBM/IRBM Div																								
CP/Bnk [redacted]	A	4	–	–	2	–	–	–	–	6	–	3	–	–	–	1	–	–	–	–	Comp	Type B*	No	WOOD BINE Satellite Communications vehicle identified
CP/Alt/Bnk [redacted]	A	2	–	–	–	–	–	–	–	2	1	4	–	–	–	3	–	–	–	–	No	–	Yes	Parking apron for TWIN EAR still ucon
Rad Rcvr [redacted]	A	2	–	–	–	–	–	–	2*	3	2	–	–	–	–	2	–	–	–	–	Yes	–	Yes*	2 sets of mast-mounted, TWIN EAR ants erected
Rad Xmtr [redacted]	A	–	–	–	–	–	–	–	–	–	4	–	8	–	–	–	–	–	–	–	*	–	No	
Mobile Base 1 [redacted]	A	2	Yes	–	–	–	–	–	2	2	–	–	–	–	–	2	–	–	–	–	–	–	*	Occasionally seen
Mobile Base 2* [redacted]	A	2	Yes	–	–	–	–	–	1	2	–	–	–	–	–	1	–	–	–	–	–	–	*	Occasionally seen; prob retract masts on three-bay garages
Mobile Base 3	A	2	Yes	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	–	–	*	Occasionally seen
Mobile Base 4	A	4	Yes	–	–	–	–	–	–	4	–	–	–	–	–	–	–	–	–	–	–	–	No	
Mobile Base 5	A	2	Yes	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	–	–	*	Occasionally seen
Olovyannaya ICBM Div																								
CP/Bnk [redacted]	A	3	–	–	1	–	–	3*	4	3	1	4	–	–	3*	6	–	–	–	–	Yes	Type B	No	3* Washer ants
CP/Alt/Bnk [redacted]	A	–	–	–	–	–	–	–	–	–	2	4	–	–	–	5	–	–	–	–	No	–	No	
Rad Rcvr [redacted]	A	–	–	–	–	–	–	–	–	2	1	2*	–	–	2	1	–	–	–	–	No*	–	No	2 fishbone ants removed; 2 new bldgs in ant field
Rad Xmtr NE [redacted]	A	–	–	–	–	–	–	–	–	–	3	–	8	–	–	–	–	–	–	–	No	–	No	
Rad Xmtr NW [redacted]	A	–	–	–	–	–	–	–	–	2	6	–	8	–	2	–	–	–	–	–	No	–	No	1 new double rhombic antenna ucon
Mobile Base 1* [redacted]	U	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	No	SS-20 constr activity abandoned in 1979
VINNITSA SRF ARMY																								
Mozyr IRBM Div																								
CP/Bnk [redacted]	A	–	–	–	–	–	–	–	–	–	2	–	–	–	–	3	–	–	–	–	Comp	Type A	No	Probable computer bldg near bunker
Rad Rcvr [redacted]	A	–	–	–	–	–	–	–	–	–	4	–	–	2	2	3*	–	–	–	–	No	–	No	2 masts support FORK REST ants
Rad Xmtr [redacted]	A	–	–	–	–	–	–	–	–	–	7	–	–	2	–	4*	–	–	–	–	No	–	No	2 masts support FORK REST ants (Dec 77 imagery)
Mozyr Mobile IRBM Base/ Training Fac* [redacted]	A	–	No	2	–	–	–	–	–	–	2	–	–	–	–	–	1	1	1	–	–	–	No	Ants by C-shaped C&C bldgs
Konkovichi MRBM Regt																								
CP/Bnk* [redacted]	A	–	–	2	–	–	–	–	3	–	2	–	–	–	–	3	–	–	–	–	Yes	No	No	This facility near the mobile base
Rad Rcvr* [redacted]	D	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	No	No	No	This facility near the mobile base
Rad Xmtr [redacted]	A	–	–	–	–	–	–	–	–	–	8	–	–	1 prob	–	–	–	–	–	–	No	No	No	
Mobile Base [redacted]	A	–	No	–	–	–	–	–	–	–	–	–	–	–	–	–	1*	–	–	–	–	–	No	Irregularly shaped bldg ucon adjacent to this bldg
Kozhanovichi MRBM Regt																								
CP/Bnk* [redacted]	A	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	No	No	–	This facility near the mobile base
Rad Rcvr* [redacted]	A	–	–	2	–	–	–	–	1	–	4	–	–	2	–	3	–	1	–	–	No	No	–	This facility at the mobile base
Rad Xmtr [redacted]	A	–	–	–	–	–	–	–	–	–	4	–	–	2	–	2	–	–	–	–	No	No	–	
Mobile Base [redacted]	A	–	No	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	
Gomel MRBM Regt																								
CP/Bnk [redacted]	A	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3	–	–	–	–	No	No	No	
Rad Rcvr [redacted]	A	–	–	–	–	–	–	–	–	–	2	–	–	2	1	5*	–	–	–	–	No	No	No	2 masts support FORK REST ant
Rad Xmtr [redacted]	A	–	–	–	–	–	–	–	–	–	8	–	–	4	–	3*	–	–	–	–	No	No	No	3 FORK REST ants
Rechitsa Mobile IRBM Spt Base* [redacted]	A	–	No	2	–	–	–	–	–	–	2*	–	–	–	–	–	1*	1*	1	–	–	–	No	Ants by C-shaped C3 bldg; irregularly shaped bldg ucon near these bldgs
Lutsk MR/IRBM Div																								
CP/Bnk [redacted]	A	–	–	–	–	–	–	–	–	–	2	–	–	–	–	4	–	–	–	–	–	–	–	
Rad Rcvr [redacted]	A	–	–	–	–	–	–	–	–	–	2	–	2	2	2	2*	–	–	–	–	–	–	–	2 FORK REST ants
Rad Xmtr [redacted]	A	–	–	–	–	–	–	–	–	–	5	–	4	2	–	3	–	–	–	–	–	–	–	
Lutsk MRBM Regt																								
CP/Bnk* [redacted]	A	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2	–	–	–	–	–	–	–	This facility at MRBM launch site 1
Rad Rcvr* [redacted]	D	–	–	–	–	–	–	–	–	–	4 (Abnd)	–	–	–	1	3	–	–	–	–	Yes	–	–	This facility at MRBM launch site 1
Mobile Base 1 [redacted]	A		–	2	–	–	–	–	1	2*	2	–	–	–	–	1	–	–	–	1*	–	–	–	Both lattice towers have a KY-EL-06 antenna on top; C3 building has a roof-mounted probable antenna array

*See comments.

Red indicates changes since [redacted] the cutoff date of the updated report [redacted]

Table 2. (Continued)

		ANTENNAS ADDED SINCE SS-20 ACTIVITY WAS FIRST OBSERVED										PRESENT ANTENNA INVENTORY																	Comments
		Active - Deactivated	Under Construction	30-Meter Lattice Tower	Roof-Mounted Arrays (YU-EL 01)	Horizontal Dipole Antennas	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Lattice Towers (all types)	Horizontal Dipole Antennas	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Large C-Shaped C3 Bldg	Small C-Shaped C3 Bldg	Rectangular Bldg Assoc w/Small C-Shaped Bldg	3-Story Rectangular C3 Bldg	Bunker Modification Yes-No-Completed	Communications Satellite Station	Mobile TWIN EAR Unit Regularly Seen	
Kivertsy MRBM Regt																													
CP/Bnk* [ ]	A*	–	–	–	1	–	–	–	–	–	–	–	1	–	–	–	–	1 (Abnd) 1	–	–	–	–	Yes	–	–	This facility at IRBM Payload Handling Facility; bunker modifications still underway
Rad Rcvr* [ ]	D	–	–	–	–	–	–	–	–	–	–	4	–	–	–	–	–	2	–	–	–	–	–	–	–	This facility at IRBM Payload Handling Facility;
Mobile Base 2 [ ]	A	2	–	2	–	–	–	–				2	2	–	–	–	–	–	–	–	–	1*	–	–		C3 bldg has roof-mounted prob antenna array
Romny IR/MRBM Div																													
CP/Bnk [ ]	A	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	3	–	–	–	–	Yes*	–	–	Underway
Rad Rcvr [ ]	A	–	–	–	–	–	–	–	–	–	–	–	4	–	–	2	–	5	–	–	–	–	–	–	–	
Rad Xmtr [ ]	A	–	–	–	–	–	–	–	–	–	–	–	4	–	–	2	–	2	–	–	–	–	–	–	–	11 revetments in ant field Mar 78
Krolevets IRBM Regt																													
CP/Bnk* [ ]	A	2	–	2 (Comp)	–	–	–	–	–	2	2 (Comp)	–	–	–	–	–	–	–	–	–	1*	No	No	No	This facility at Mobile Base 1; C3 bldg has roof-mounted prob antenna array
Rad Rcvr [ ]	D	–	–	–	–	–	–	–	–	–	*	–	–	–	–	*	–	–	–	–	–	No	No	No	This facility at Mobile Base 1; 6 horizontal dipoles and 2 masts removed
Rad Xmtr [ ]	A	–	–	–	–	–	–	–	–	–	6	–	–	–	–	2	–	–	–	–	–	No	No	No	
Mobile Base 1* [ ]	U	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	See CP/bnk entries
Lebedin IRBM Regt																													
CP/Bnk* [ ]	A	2	–	2	–	–	–	–	2	2	2	–	–	–	–	2	–	–	–	–	–	Yes	–	–	This facility at Mobile Base 1;
Rad Rcvr* [ ]	D	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	This facility at Mobile Base 1
Mobile Base 1* [ ]	A	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	See CP/bnk entries
OMSK SRF ARMY																													
Novosibirsk IRBM Div																													
CP/Bnk [ ]	A	4	–	–	1	–	–	–	1	8	2	1	–	–	–	3	–	–	–	–	–	Comp	–	–	This facility has 4 new lattice towers
Rad Rcvr [ ]	A	1	–	–	2	–	–	–	1	1	2	2	–	–	1	1	–	–	–	–	–	–	–	–	
Rad Xmtr [ ]	A	2	–	7	–	6	–	–	1	2	7	–	6	–	–	1	–	–	–	–	–	No	–	No	
Mobile Base 1	A	2	Yes	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	–	–	–	No	
Mobile Base 2	A	2	Yes	–	–	–	–	–	–	2*	–	–	–	–	–	–	–	–	–	–	–	–	–	No	
Mobile Base 3	A	2*	Yes	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	–	–	–	No	
Mobile Base 4	A	2*	Yes	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	–	–	–	No	1 Lattice tower has KY-EL-06 ant on top
Mobile Base 5	A	2*	–	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–	1*	–	–	–	–	No	Roof-mounted prob ants
Mobile Base 6	A	2	Yes	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	–	–	–	No	
Barnaul IRBM Div																													C3 bldg has two roof-mounted prob antenna arrays & an adjacent hq/admin bldg
Div Hqs (No BE number)	U	2	–	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	1*	–	–	–	
Mobile Base 1 [ ]	U	2	–	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	1*	–	–	–	C3 bldg has one roof-mounted prob antenna array
SMOLENSK SRF ARMY																													
Postavy IRBM Div																													
CP/Bnk [ ]	A	3	–	2	–	–	1	–	–	3	4	–	–	1	–	3	–	–	–	–	–	Comp	No	Yes	
Rad Rcvr [ ]	*	3	–	–	–	–	–	–	–	4	–	–	–	–	–	–	–	–	–	–	–	Yes	No	No	5 van trucks & trailers at bnk; 3 new lattice towers with 3 TWIN
Rad Xmtr [ ]	A	–	–	–	–	–	–	–	–	–	9	–	–	2	–	6	–	–	–	–	–	No	No	No	EAR ants
Postavy MRBM Regt																													This facility at the mobile base; dipole down prob temporarily irregularly shaped bldg ucon near this bldg
CP/Bnk* [ ]	A	–	–	2*	–	–	–	–	–	–	2*	–	–	–	–	1	1*	–	–	–	–	Comp	No	No	
Rad Rcvr* [ ]	D	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	No	No	No	This facility near the mobile base
Mobile Base [ ]	A	–	No	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	Yes		See CP/Bnk entries
Smorgon IRBM Regt																													This facility at Mobile Base 1; a 2-story irregularly shaped hq/admin bldg also present
CP/Bnk* [ ]	A	2	–	2	–	–	–	–	1	2	2	–	–	–	–	1	–	*	–	–	–	Comp	No	No	
Rad Rcvr* [ ]	D	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	No	No	This facility near Mobile Base 1
Rad Xmtr [ ]	A	–	–	–	–	–	–	–	–	–	8	–	–	1	–	1	–	–	–	–	–	No	No	No	
Mobile Base 1 [ ]	A	–	No	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	*		Occasionally seen; admin-type hqs newly identified in support area
Mobile Base 2 [ ]	A	2	No	2	–	–	–	–	1	1	2	–	–	–	–	1	–	1*	–	–	–	–	–	No		C&C building has 2 roof-mounted prob antenna arrays
Polotsk MRBM Regt																													This facility at Mobile Base 1
CP/Bnk* [ ]	A	–	–	2	–	–	–	–	3	–	2	–	–	–	–	3	–	–	–	–	–	Yes	No	No	This facility at Mobile Base 1
Rad Rcvr* [ ]	D	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	No	No	No	Polotsk/Disna MRBM Regt Xmtr; mast supports a FORK REST ant
Rad Xmtr* [ ]	A	–	–	–	–	–	–	–	–	–	8	–	–	–	–	1*	–	–	–	–	–	No	No	No	
Mobile Base 1 [ ]	A	–	No	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	No		Roof-mounted prob ants; irregularly shaped bldg ucon near C-shaped C3 bldg
Mobile Base 2 [ ]	A	–	No	2	–	–	–	–	1	–	2	–	–	–	–	1	–	1*	–	–	–	–	–	No		
Lida IRBM Div																													
CP/Bnk [ ]	A	–	–	–	–	–	–	–	–	–	1	–	–	–	–	3	–	–	–	–	–	No	No	No	Double rhombic ant
Rad Rcvr [ ]	A	–	–	–	–	–	–	–	–	–	2	–	2*	–	–	2	–	–	–	–	–	No	No	No	
Rad Xmtr [ ]	A	–	–	–	–	–	–	–	–	–	10	–	–	4	–	2	–	–	–	–	–	No	No	No	

*See comments.

Red indicates changes since [ ] the cutoff date of the updated report, [ ]

Table 2. (Continued)

		ANTENNAS ADDED SINCE SS-20 ACTIVITY WAS FIRST OBSERVED								PRESENT ANTENNA INVENTORY													Comments
	Active - Deactivated	Under Construction	30-Meter Lattice Tower	Roof-Mounted Arrays (YU-EL-01)	Horizontal Dipole Antennas	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Lattice Towers (all types)	Horizontal Dipole Antennas	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Large C-Shaped C3 Bldg	Small C-Shaped C3 Bldg	Rectangular Bldg Assoc w/Small C-Shaped Bldg	3-Story Rectangular C3 Bldg	Bunker Modification Yes-No-Completed	Communications Satellite Station	Mobile TWIN EAR Unit Regularly Seen	
Lida MRBM Regt																								
CP/Bnk*	A	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	Cp/bnk & rcvr at MRBM at Launch Site 2
Rad Rcvr	A	–	–	–	–	–	–	–	–	–	*	–	–	2	1*	2	–	–	–	–	–	No	No	Hardened ant is Type B; at least 2 horizontal dipole ants have been removed
Mobile Base 1	A	2*	–	2	–	–	–	–	–	2*	2	–	–	–	–	–	–	1*	–	–	–	–	–	Roof-mounted prob ants; prob KY-EL-06
Gresk MRBM Regt																								
CP/Bnk*	A	–	–	3*	–	–	–	–	5*	–	3	–	–	–	–	5*	–	–	–	–	–	–	–	This facility at Mobile Base 1; 2 of the masts have rotatable log periodic ant on them
Rad Rcvr*	A	–	–	–	–	–	–	–	–	–	4	–	–	2	1*	2	–	–	–	–	–	–	–	This facility at Mobile Base 1; hardened antenna is type B
Rad Xmtr	A	–	–	4	–	2*	–	–	1	–	4	–	2*	–	–	1	–	–	–	–	–	–	–	Double rhombic ants
Mobile IRBM Base 1	A	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	No	–	No	No	No	
Dyatlovo MRBM Regt																								
CP/Bnk*	A	2*	–	2	–	–	–	–	–	2*	2	–	–	–	–	–	–	–	–	1	–	–	–	This facility at Mobile Base 1; one lattice tower has KY-EL-06 antenna on top
Rad Rcvr*	A	–	–	–	–	–	–	–	–	–	2	–	–	2	1	2	–	–	–	–	–	–	–	This facility near Mobile Base 1
Rad Xmtr	A	–	–	–	–	–	–	–	–	–	4	–	–	2	–	1	–	–	–	–	–	–	–	
Mobile Base 1	A	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	See CP/Bnk entries
Pruzhany MR/IRBM Div																								
CP/Bnk	A	–	–	–	–	–	–	–	–	–	3	–	–	–	–	2	–	–	–	–	–	–	–	FORK REST
Rad Rcvr	A	–	–	–	–	–	–	–	–	–	–	–	2	2	2	1	–	–	–	–	–	–	–	
Rad Xmtr	A	–	–	–	–	–	–	–	–	–	4	–	6	2	–	2	–	–	–	–	–	–	–	
Slonim MRBM Regt																								
CP/Bnk*	A	2	–	2	–	–	–	–	–	2	2	–	–	–	–	–	–	–	–	1	–	–	–	This facility at Mobile Base 1
Rad Rcvr*	D	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	This facility at Mobile Base 1
Rad Xmtr	A	–	–	–	–	–	–	–	–	–	4	–	–	2	–	–	–	–	–	–	–	–	–	
Mobile Base 1	A	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
ORENBURG SRF ARMY																								
Verkhnyaya Salda IRBM Div																								
CP/Bnk	A	7	–	5	1	–	–	–	–	9	4	1	–	–	–	2	–	–	–	–	Comp	No	*	Mobile TWIN EAR seen here on occasion
Rad Rcvr	A	3	–	–	–	–	–	–	–	3	2	2	–	2	2	7*	–	–	–	–	–	No	No	1 FORK REST ant; 2 TWIN EAR ants present
Hq Spt Rcvr	A	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	No	No	Fac prob deactivated
Rad Xmtr	A	–	–	–	–	–	1	–	–	–	6	–	4	1	–	2	–	–	–	–	–	No	No	
Mobile Base 1	A	2	Yes	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	–	–	No	Mobile TWIN EAR seen on occasion
Mobile Base 2	A	2	Yes	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	–	–	*	Mobile TWIN EAR seen on occasion
Mobile Base 3	A	2	Yes	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	–	–	No	
Mobile Base 4	A	4	No	–	–	–	–	–	–	4*	–	–	–	–	–	–	–	1*	–	–	–	–	No	Roof-mounted prob ants; 1 lattice tower has been dismantled
Mobile Base 5	A	2	–	–	–	–	–	–	–	2	–	–	–	–	–	–	–	1*	No	–	–	–	–	Roof-mounted prob ants; second lattice tower identified
VLADIMIR SRF ARMY																								
Yurya IRBM Div																								
CP/Bnk	A	7	–	3	1	–	–	–	–	9	3	1	–	–	–	2	–	–	–	–	Comp	No	No	
Rad Rcvr	A	3	–	–	–	–	–	–	2	3	8	–	–	2	–	5*	–	–	–	–	–	No	No	2 FORK REST ants; 2 pairs of TWIN EAR ant
Rad Xmtr	A	–	–	4	–	–	–	–	–	–	8	–	–	–	–	6*	–	–	–	–	–	No	No	3 FORK REST ants; 1 R-400 ant
Mobile Base 1	A	2	Yes	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	–	–	No	
Mobile Base 2	A	2	Yes	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	–	–	No	
Mobile Base 3	A	2	Yes	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	–	–	No	
Mobile Base 4	A	2	No	–	–	–	–	–	–	2	–	–	–	–	–	–	–	1*	–	–	–	–	No	Roof-mounted prob ants
Mobile Base 5	A	2	–	–	–	–	–	–	–	2	–	–	–	–	–	–	–	1*	–	–	–	–	No	Roof-mounted prob ants

*See Comments.

Note: A [redacted] MSV was identified during the reporting period at the NOVOPETROVSKOYE SRF RADIO COMMUNICATIONS TRANSMITTER Cplx (see text) which was not included in Table 2.

Red indicates changes since [redacted] the cutoff date of the updated report, [redacted]

50. On [redacted] probable retractable antenna masts were identified for the first time on three three-bay garages at Drovyanaya Mobile IRBM Base 2. The masts are 10 meters high and are deployed in pairs on each garage (Figure 28). The masts, with no discernible gadgetry on them, are probably retracted through small roof-mounted blocks into a bay,* believed to house a [redacted] MSV. It is significant that the tops of the erected masts on the three-bay garages are 18 meters above ground (10 meter-high masts on a 8-meter-high building) because a mast frequently observed at the rear of [redacted] meter MSVs during field training exercises is [redacted] above ground. This similarity in height suggests that the masts on the three-bay garages support SS-20 operations in garrison just as the masts at the rear of [redacted] MSVs support SS-20 operations in the field. It is assumed that all three-, four-, and five-bay garages are equipped with probable retractable masts. (S/WN) 25X1 25X1 25X1 25X1 25X1

51. A [redacted] MSV was observed at the Novopetrovskoye SRF Radcom Transmitter Cplx, near Moscow, for the first, and only time, on imagery of [redacted] The MSV was in an open area in a motorpool and was not observed on subsequent coverage of [redacted] Novopetrovskoye is the SRF's national-level transmitter facility. Two other SRF national-level C3 facilities, also near Moscow, have had SS-20-associated equipment observed in associated motorpools. The Naro-Fominsk SRF Radcom Rcvr Cplx [redacted] usually has six [redacted] MSVs present, and the Perkhushkovo SRF National Command Center/Bnk [redacted] has accommodated as many as three [redacted] MSVs. (S/WN) 25X1 25X1 25X1 25X1 25X1

52. At the Romny IR/MRBM Division CP/Bnk, significant modifications have been underway since March 1982. On [redacted] the date of the most recent coverage, the earth mounding on the triple arch-roofed control bunker had been re-excavated in five areas, and a small area—just to the south of the control bunker and possibly intended for new antennas—had been cleared of trees. Also, a new heliport (Romny Heliport, [redacted] is under construction a few meters east of the control bunker, and five building foundations in the northern portion of the support area were being constructed. The new heliport—in a late stage of construction—consisted of one short runway/taxiway, six hardstands, and GCA (ground control approach) equipment. On [redacted] three HIP-C attack helicopters with rocket pods were present. Support housing for the heliport will probably be provided by the Romny IR/MRBM division-level support facilities, undergoing expansion. Except for the construction of the heliport, the construction-related activity at this facility is typical when SS-20 deployment is underway within a division. The SS-20 is deployed in the Romny Division at Lebedin and Krolevets. (S/WN) 25X1 25X1 25X1

53. Construction continued on the irregularly-shaped, unidentified buildings previously reported at Konkovichi Mobile IRBM Base, Rechitsa Mobile IRBM Support Base, and Postavy Mobile IRBM Base. All of the buildings are now in a late stage of construction and remain unidentified. In addition, identical buildings were recently identified in the late stage of construction at Polotsk Mobile IRBM Base 2 as well as near the Yoshkar-Ola ICBM Cplx Cp/Bnk/Hd and near the Plesetsk SRF Army Missile and Space Test Cplx Communications Center. The presence of the irregularly-shaped, unidentified buildings at Yoshkar-Ola and Plesetsk is noteworthy because neither area has an SS-20 association. Yoshkar-Ola is an SS-13 ICBM complex and Plesetsk is a missile test range. Previously, the irregularly-shaped, unidentified buildings were observed only at SS-20 bases. (S/WN)

54. Four new 30-meter lattice towers were identified at Novosibirsk ICBM Cplx Cp/Bnk on [redacted] A total of eight lattice towers are at this facility. They will probably support UHF/VHF antennas. (S/WN) 25X1 25X1

55. At Drovyanaya Radcom Rcvr/Bnk/Hd, one TWIN EAR antenna and an associated support mast were dismantled by [redacted] The TWIN EAR antenna and the associated support mast were observed on the ground near the control bunker on [redacted] (Figure 29). By [redacted] the support mast and antenna had been rebuilt. The orientation of the TWIN EAR antenna remained approximately east/west. (S/WN) 25X1 25X1

56. On [redacted] a truck-mounted TWIN EAR unit in the travel mode was identified on a hard stand near the control bunker at Drovyanaya ICBM Cplx Cp/Alt/Bnk. (S/WN) 25X1

57. On [redacted] a lattice tower was identified behind the C-shaped C3 building at Verkhnyaya Salda Mobile IRBM Base 5. (S/WN) 25X1

*Except for small roof-mounted blocks, this bay has a relatively clean roof, while the remaining bays have roofs that are cluttered with large vents.

[redacted] 25X1

REFERENCES

IMAGERY

All applicable satellite imagery acquired from [redacted] was used in preparation of this report. (S/WN) 25X1

DOCUMENTS

1. NPIC. [redacted] RCA-01/0001/83, *Soviet Mobile Missile Summary,* [redacted] *(S),* Mar 83 (TOP SECRET CODEWORDS/NOFORN [redacted] 25X1 25X1

*Extracted material is classified NOFORN [redacted] 25X1

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25X1

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